

Preliminary Alternatives Analysis



THE ALTAMONT CORRIDOR RAIL PROJECT

Presentation for
Livermore Environment & Energy Committee

September 14, 2011





Altamont Corridor & California High-Speed Train System



- Supports intercity and commuter service between northern San Joaquin Valley and Bay Area via the Tri-Valley area
- Serves as feeder service to statewide high-speed train network
- Potential connections to BART in Livermore and/or Fremont/Union City area to serve Oakland and Oakland Airport
- Provide regional rail infrastructure compatible with high-speed train equipment
- Potential to operate service between Sacramento and San Jose via Stockton
- Potential to operate service between Merced and San Jose on branch line

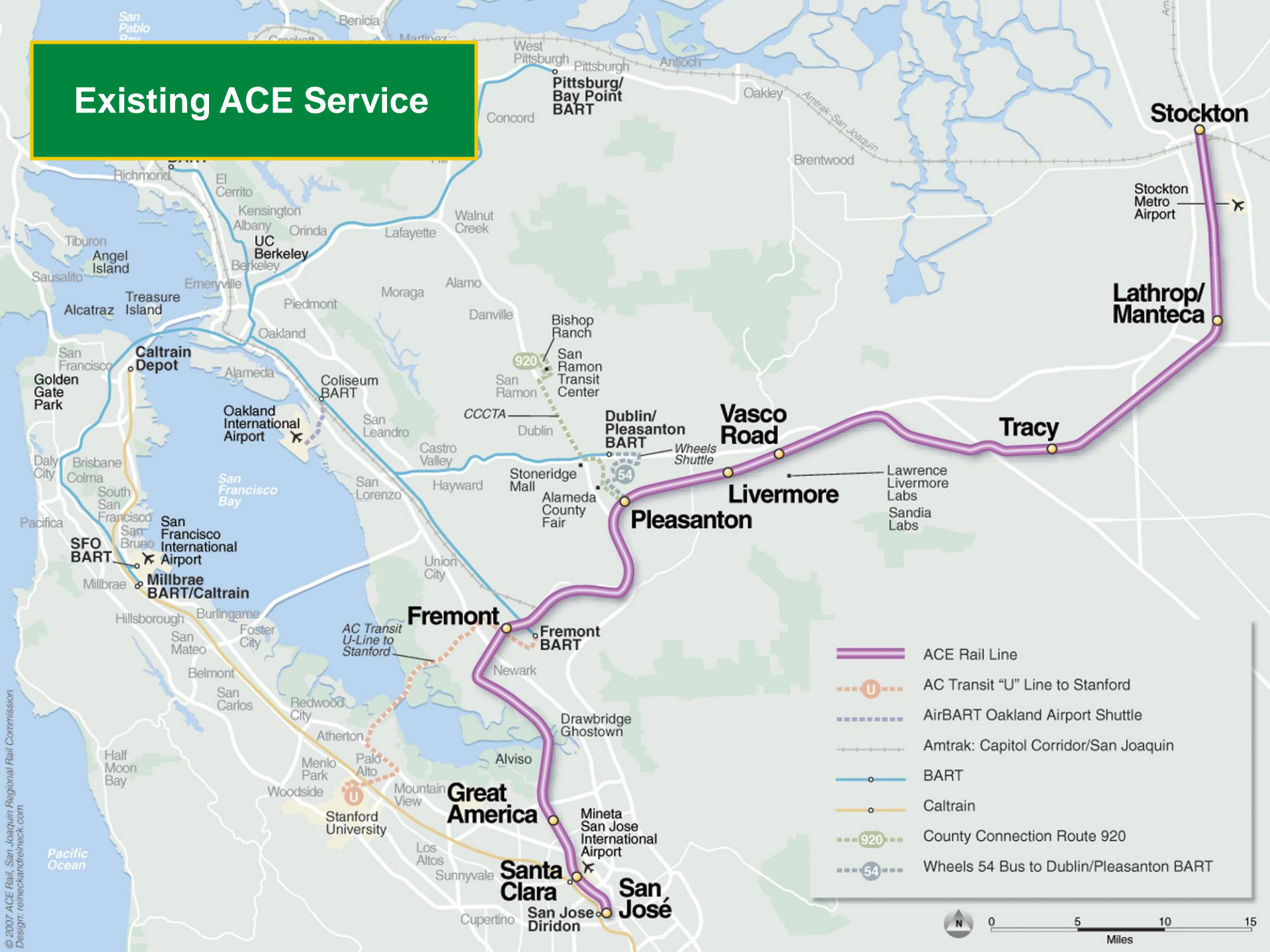


Altamont Corridor Rail Project — Goals and Objectives



- Develop a regional rail line in the Altamont Corridor, linking the northern San Joaquin Valley with the Bay Area, with a dedicated line for passenger service where feasible
- Transform the existing ACE service into a robust intercity and commuter service with frequent trains operating in both directions all day long
- Offer a travel alternative that is competitive with the travel costs and time of auto and intercity buses
- Connect to BART for access to Oakland and the East Bay
- Serve as feeder to Statewide High-Speed Train system
- Accommodate HST-compatible equipment in Long-Term

Existing ACE Service





Altamont Corridor Connectivity





Public Outreach and Scoping

❖ Public Scoping Meetings

- Stockton, Livermore, Fremont, and San José - Nov 2009

❖ Initial Alternatives

- Presented to Board on May 6, 2010

❖ Preliminary Alternatives Analysis

- Presented to Board on February 3, 2011

❖ Outreach + Stakeholder Meetings

- Altamont Corridor Partnership Working Group
- Alameda County Transportation Commission (ACTC)
- Tri-Valley Regional Rail Policy Advisory Committee
- Agencies, community groups, business organizations



Additional Alternatives Outreach

❖ Stakeholder Meetings (cont.)

- **Local Government Technical Working Group**
- **City of Santa Clara Transportation Department**
- **San Joaquin County Board of Supervisors**
- **Livermore Area Recreation and Park District**
- **Pleasanton City Council**
- **Tracy City Council**
- **Resource agencies, such as USFWS and US EPA**
- **California Association of General Contractors, Tracy Rotary Club and Chamber of Commerce, Campaign for Common Ground, and Fremont Exchange Club**



Preliminary Alternatives Analysis

- ❖ Evaluated alignment, station, and design options
- ❖ Initial alternatives presented to Board on May 6, 2010
- ❖ Preliminary Alternatives Analysis includes input and evaluation since May 2010
- ❖ Extensive agency and public outreach





Alternatives Analysis Screening Criteria

❖ Meets Purpose and Need

❖ Design Objectives

- Maximize Ridership/Revenue Potential (time, length)
- Maximize Connectivity and Accessibility (connections)
- Minimize Costs

❖ Feasibility and Practicability

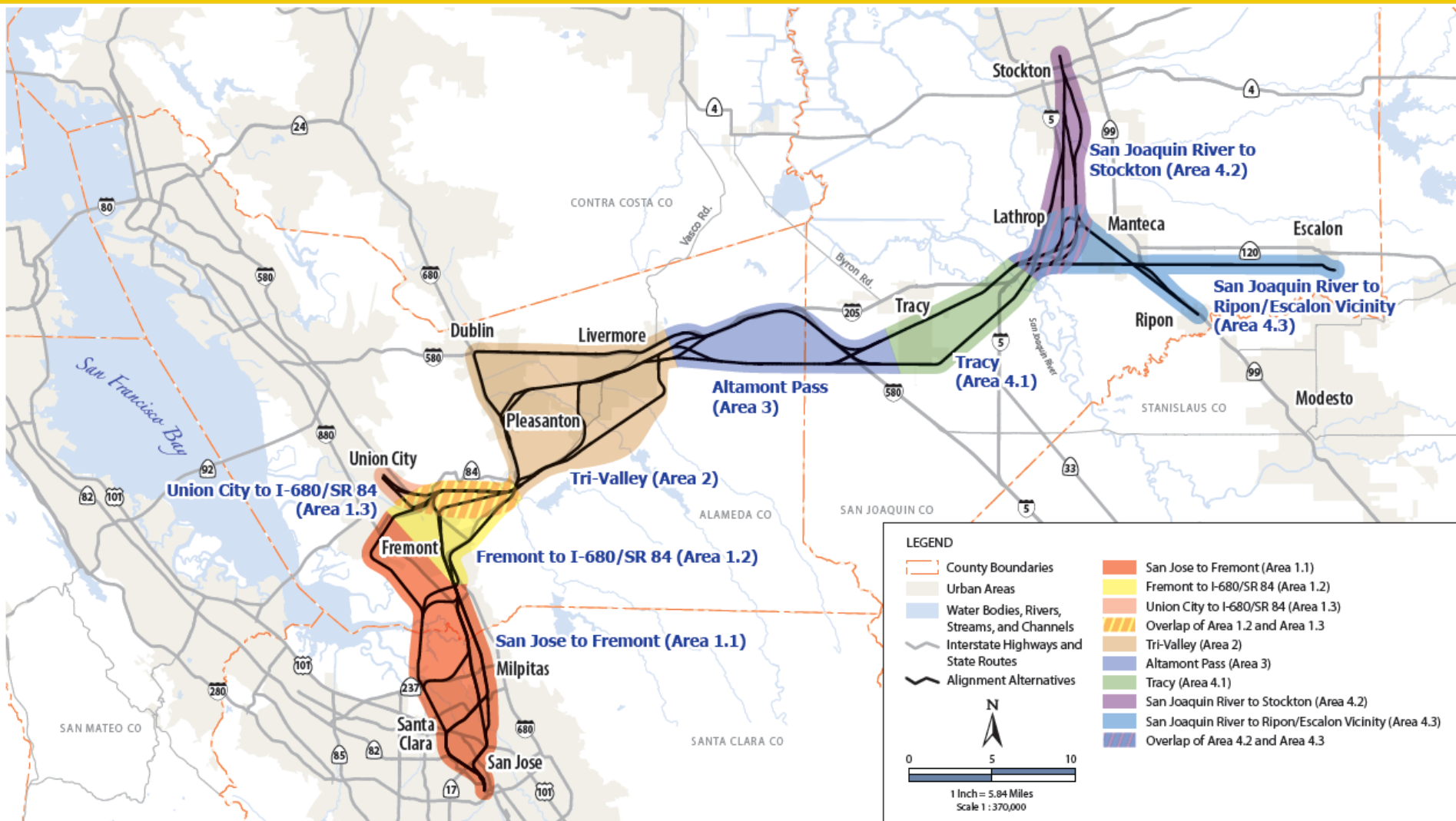
- Constructability
- Right of Way

❖ Environmental Impact

- Natural Resource Impacts
- Environmental Quality

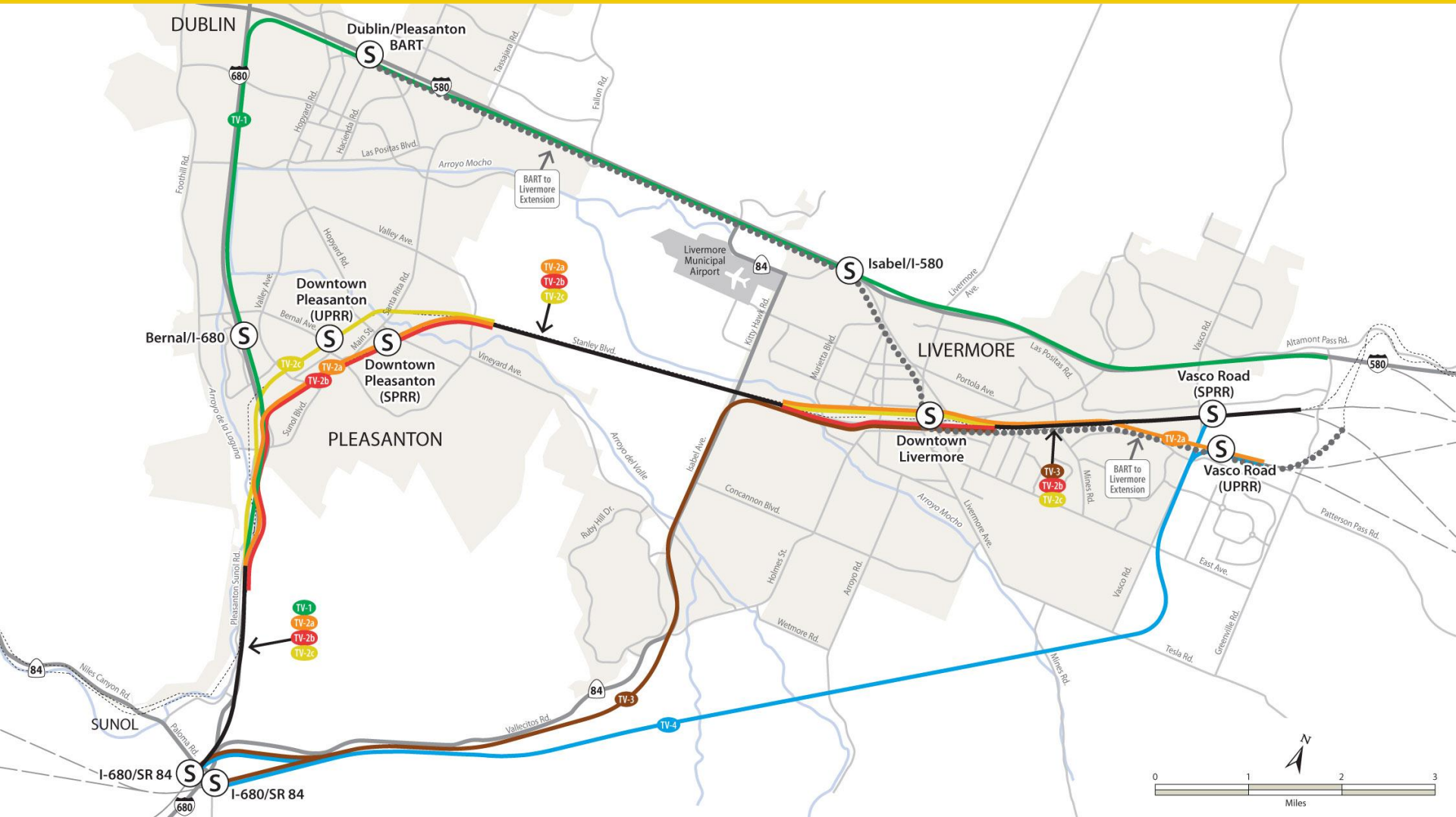


Evaluation Areas





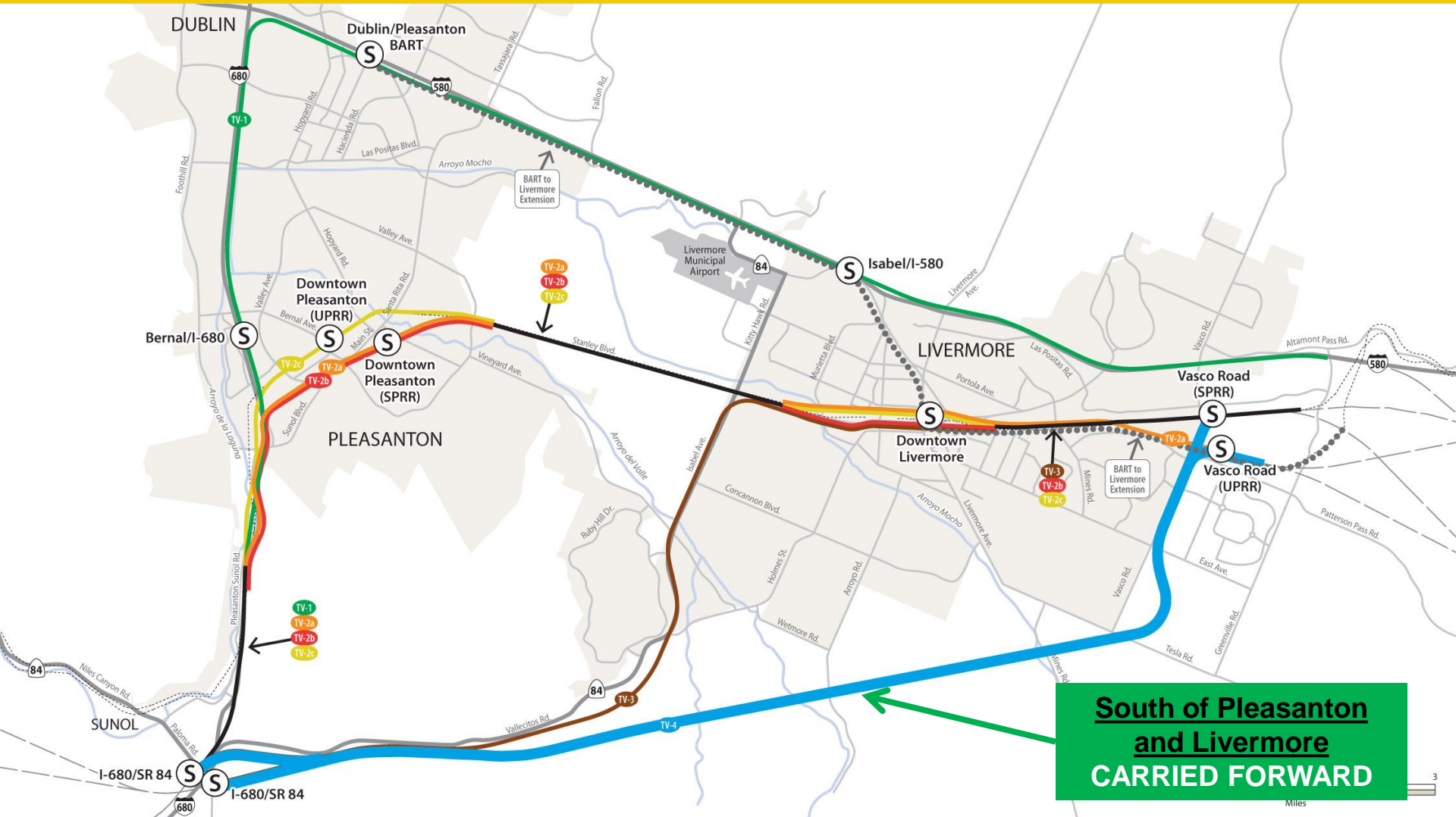
Tri-Valley Routes and Stations Analyzed







Tri-Valley Routes and Stations Analyzed



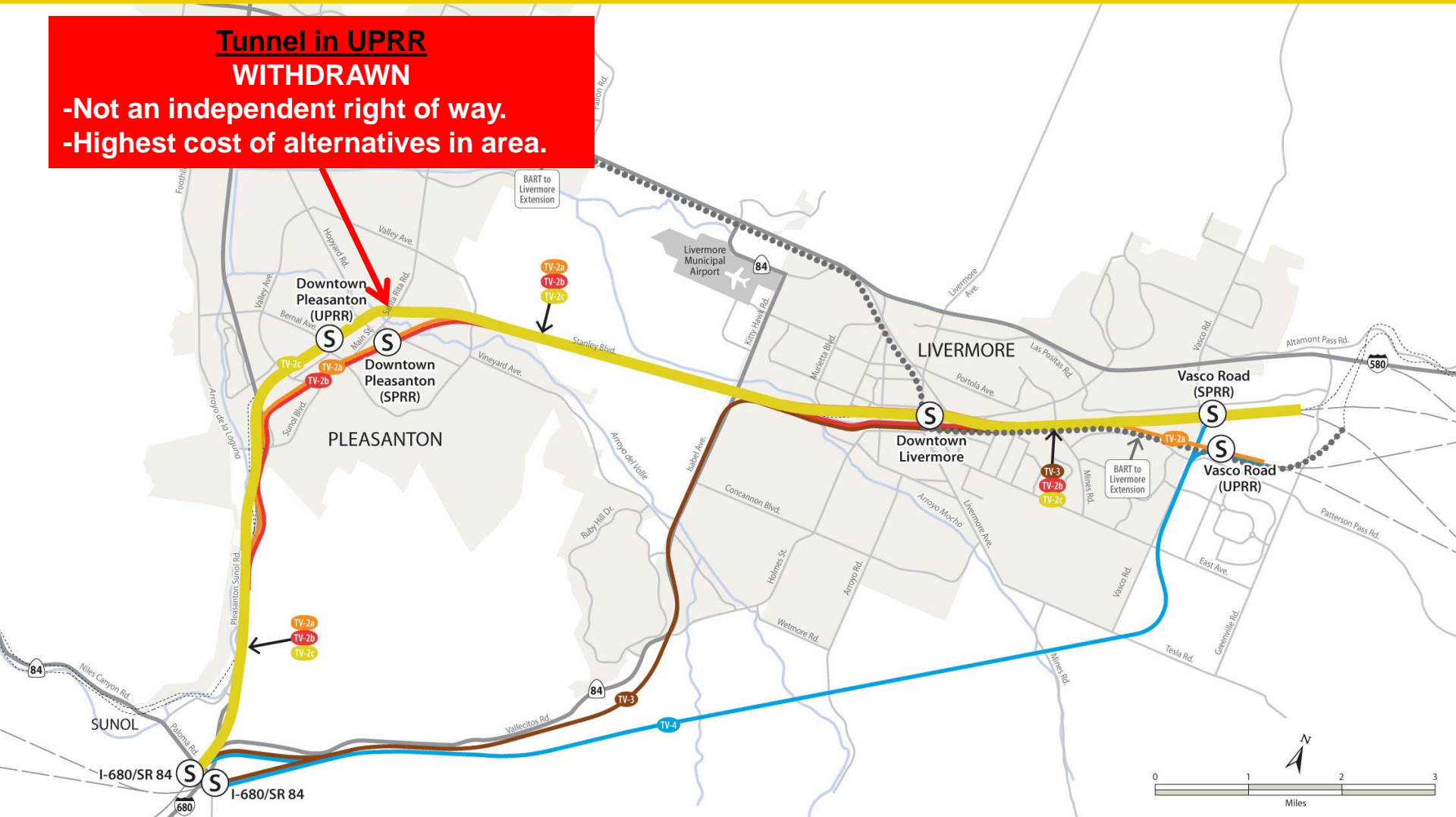




Tri-Valley Routes and Stations Analyzed

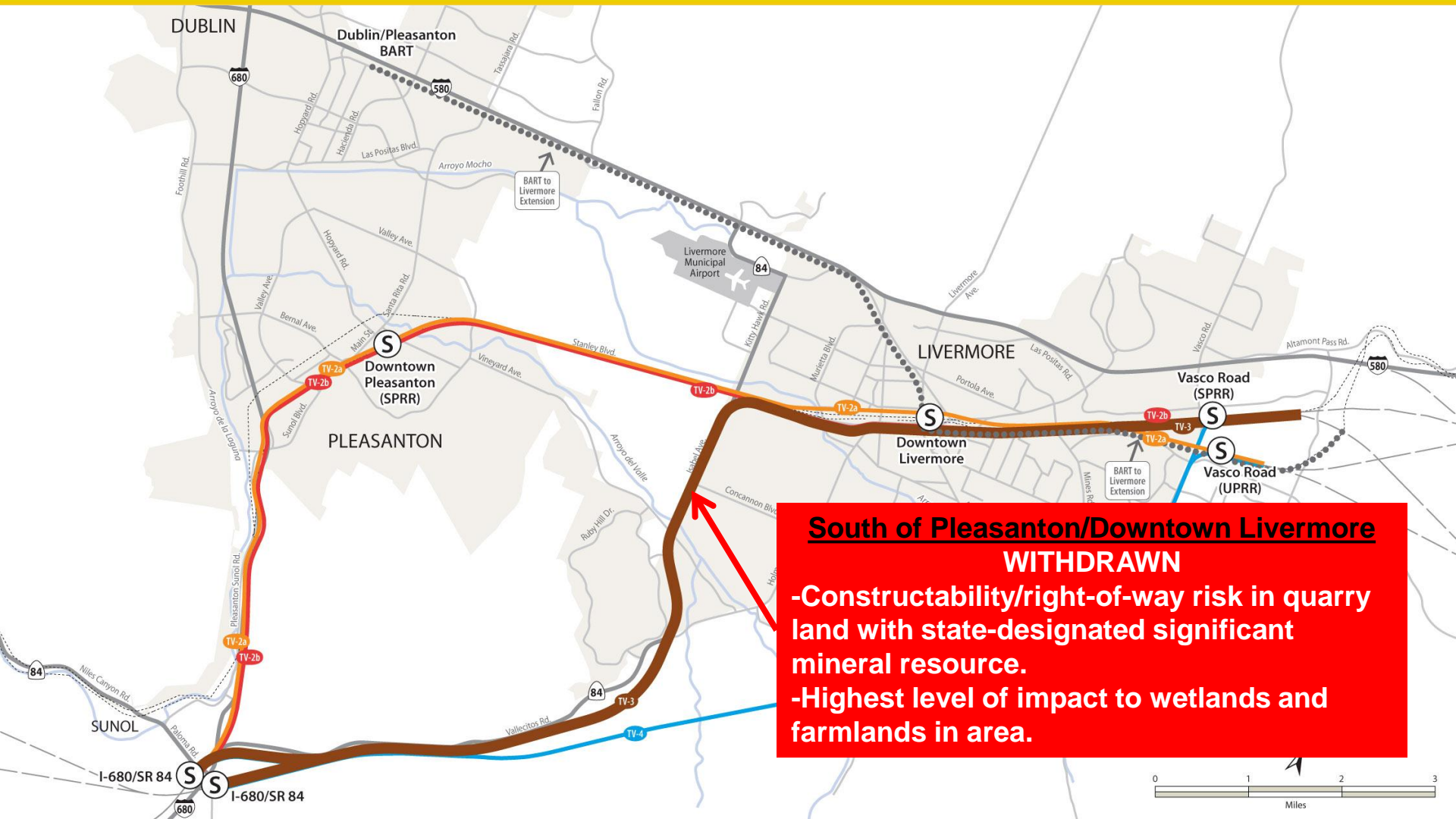
Tunnel in UPRR **WITHDRAWN**

- Not an independent right of way.
- Highest cost of alternatives in area.



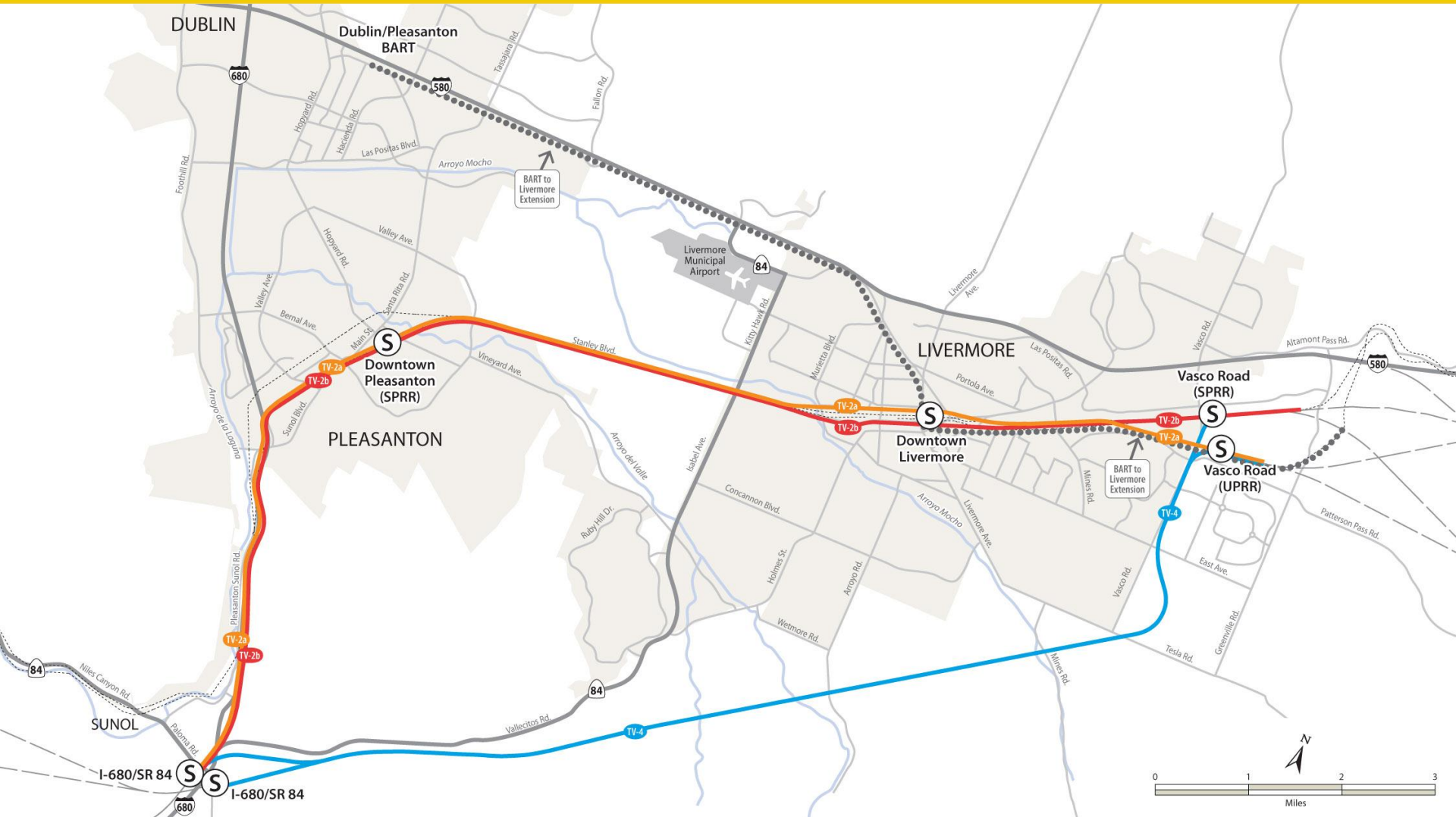


Tri-Valley Routes and Stations Analyzed



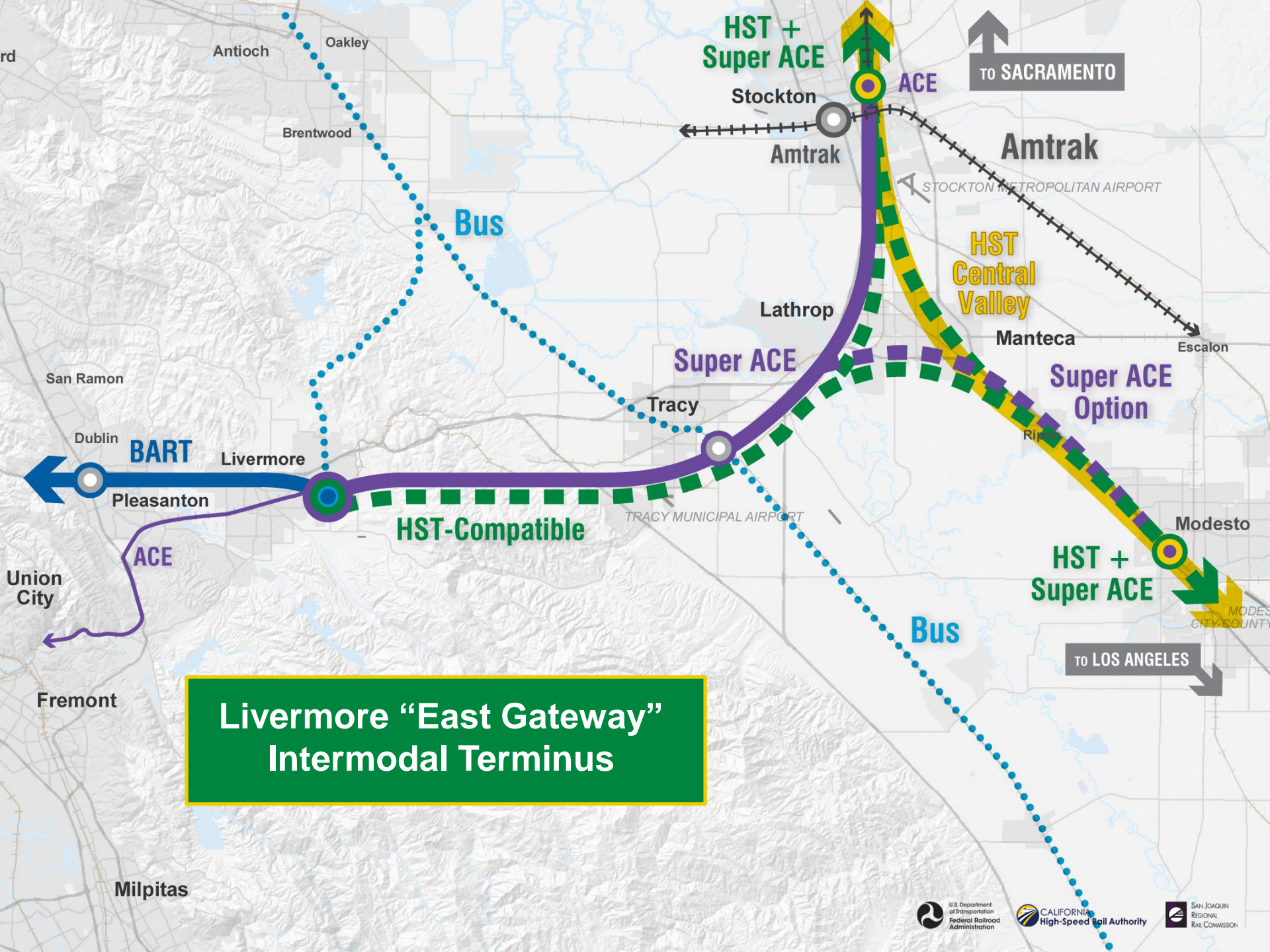


Tri-Valley Routes and Station Options recommended to be carried forward

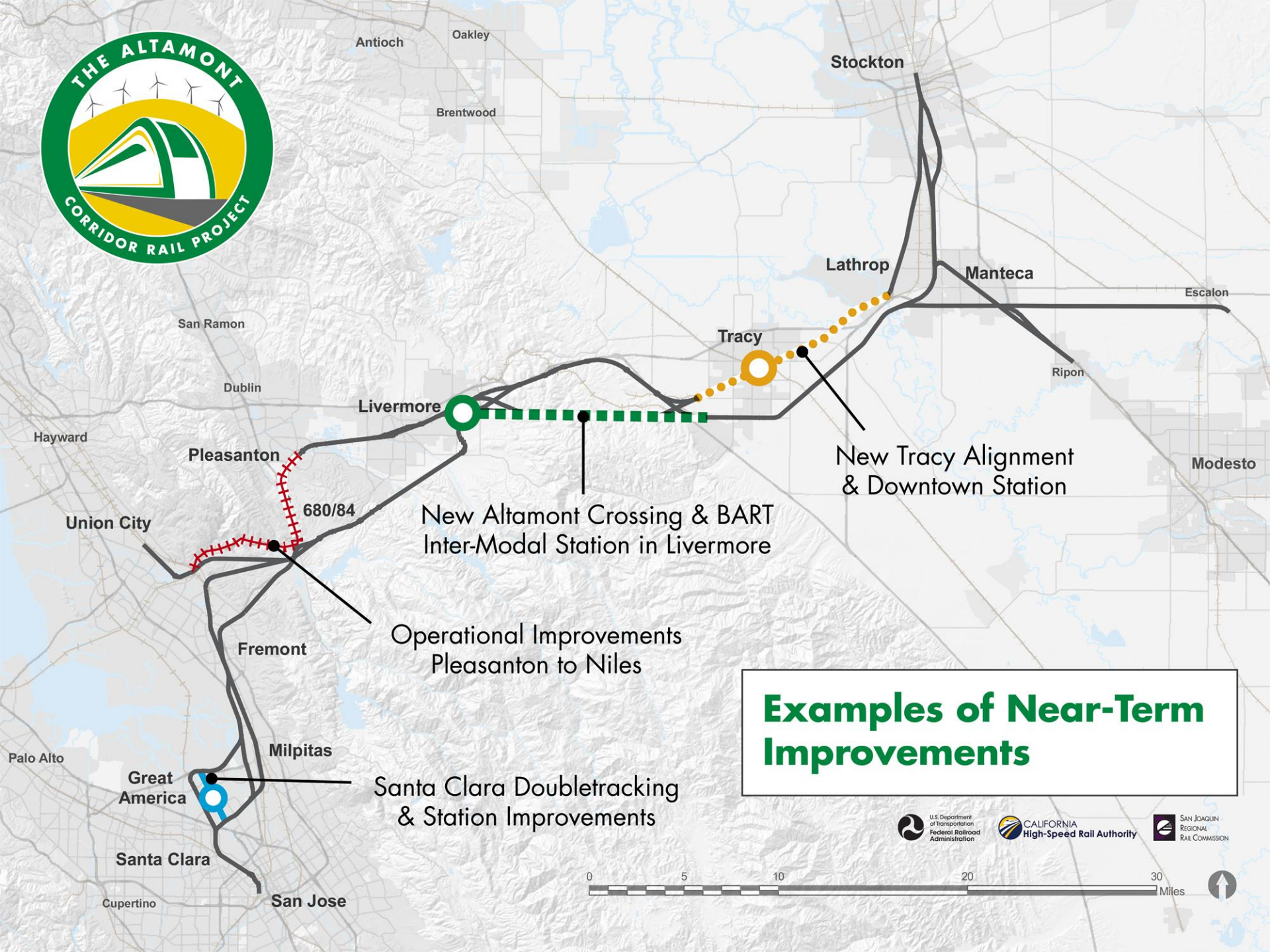


Potential Project Phases & Stop Short Options

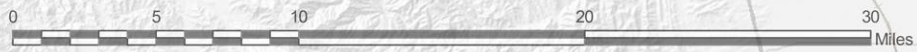




**Livermore "East Gateway"
Intermodal Terminus**



Examples of Near-Term Improvements





Potential Train Types—Existing & Interim

- **Flexibility**—Can be operated on non-electrified, as well as electrified, lines
- **Slower top speeds and reduced acceleration performance** as compared with electric



Existing ACE—Diesel Locomotive

- One locomotive per 8 coaches (max.)
- Train length affects acceleration and braking performance
- Top speed: 79 mph



Diesel Multiple Unit (DMU)

- Each train unit is self-propelled
- Performance not affected by train length
- Top speed: 110 mph

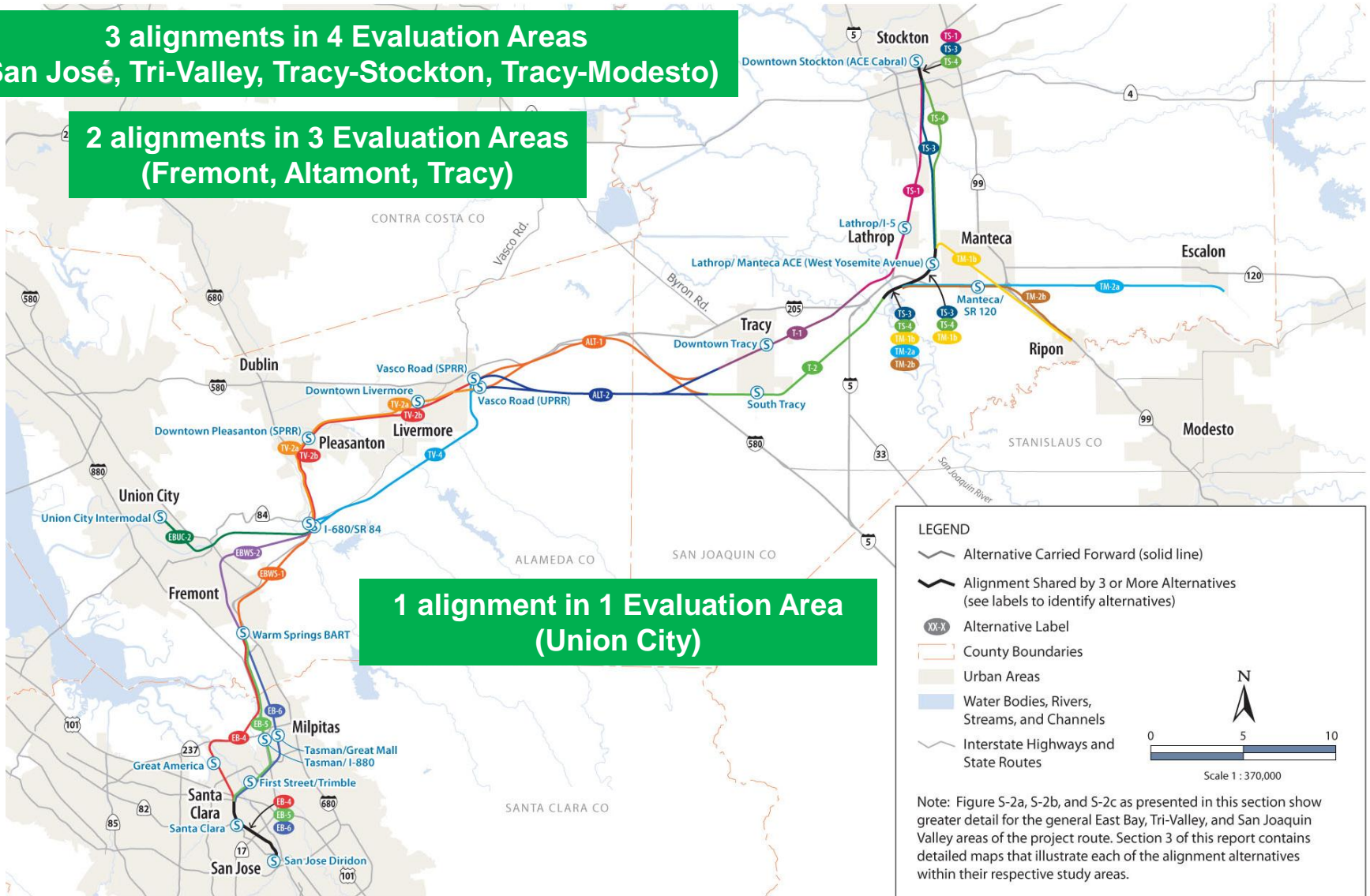


Alternatives Recommended for further Evaluation in EIR/EIS

3 alignments in 4 Evaluation Areas
(San José, Tri-Valley, Tracy-Stockton, Tracy-Modesto)

2 alignments in 3 Evaluation Areas
(Fremont, Altamont, Tracy)

1 alignment in 1 Evaluation Area
(Union City)





Next Steps

- ❖ **Supplemental AA – 2012**
- ❖ **Preparation of Draft EIR/EIS – 2012+**
- ❖ **Final EIR/EIS – 2013+**
- ❖ **Engineering Design – 2013/2014**
- ❖ **Construction of Near-Term Improvements (Subject to Funding) – 2015+**



Questions and Answers

